

6.2.3 Characteristics of New and Stock Generating Capacities, by Plant Type

	2002	2010	2002 Installed Capital Costs of a Typical Power Plant		
	Heat Rate (Btu/kWh)	Heat Rate (Btu/kWh)	Price (\$2002 thousand per MW)	Size (MW)	Cost (\$2002 million)
<u>New Plant Type</u>					
Pulverized Coal	9,000	8,600	1,168	600	701
Coal-Gasification Combined Cyc	8,000	7,200	1,383	550	761
Combined Cycle	7,444	7,000	542	250	136
Advanced Combined-Cycle	6,928	6,350	615	400	246
Combustion Turbine	10,878	10,450	413	160	66
Advanced Combustion Turbine	9,289	8,550	466	230	107
Fuel Cell	7,446	6,750	2,162	10	22
Wind	10,280	10,280	1,015	50	51
<u>Stock Plant Type</u>		<u>2002</u>	<u>2005</u>	<u>2010</u>	<u>2020</u>
Fossil Fuel Steam Heat Rate (Btu/kWh)		11,018	10,675	10,499	9,920
Nuclear Energy Heat Rate (Btu/kWh)		10,442	10,442	10,442	10,442

Note(s): This table provides comparisons of electric generating plants. Plant use of electricity is included; however, transmission and distribution losses of the electric grid are excluded.

Source(s): EIA, Assumptions to the AEO 2004, Table 38, p. 71 for fuels cells and wind, Table 48, p. 84 for fossil-fueled technologies; and EIA, AEO 2004, Jan. 2004, Table A2, p. 134-136, and Table A8, p. 145-146.